

ABSTRACT

A system and method for secure communications 18 uses a satellite 12 or other central processor with the ability to integrate information from all layers 22 of communications into a security control plane 20. These
5 layers may include, but are not limited to, an application layer, a presentation layer, a session layer, a transport layer, a network layer, a data link layer, and a physical layer. Security control plane 20, in conjunction with station 14 (such as a ground gateway) containing security information, can be used to form the equivalent of a virtual biological fluid 40 which can be used to detect and
10 protect against intrusion. This also enables the present invention to use an interactive security doctrine that allows for multiple levels of security deployment, based on the level of threat, as observed on many biological systems.